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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/587,732	06/05/2000	Young-fu Chang	7-11-14-2-10-4	7880

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EXAMINER

FERGUSON, KEITH

ART UNIT	PAPER NUMBER
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2683

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DATE MAILED: 10/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/587,732

Applicant(s)

CHANG ET AL.

Examiner

Keith T. Ferguson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 August 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this

Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-37 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sallberg in view of Emery et al., newly recited reference.

Regarding claims 1,10,12,23,24,32-37,39,40, Sallberg discloses in a wireless telecommunication system (fig. 3a), a method/system/wireless terminal for providing/receiving service features (call forwarding) for wireless calls (paragraph 0015, lines 16-21), comprising the steps of a switch (MSC/VLR) (fig. 3a number 320) for accessing a network for administering service features for a wireless call to or from a wireless terminal (radio) (fig. 3a number 300) (paragraph 0015 lines 16-21); and accessing a home network (fig. 3a number 305) (paragraph 0022, lines 7-8), regardless of the location of said wireless terminal (location area 305) (page 2, paragraph 0022, lines 7-8), for managing all service features in a central location (call forward gateway) (fig. 3a number 325) (pages 2-3, paragraph 0022), said home network being connected to said network (fig. 3a numbers 305,370,390), Sallberg further discloses the steps of in response to a call to or from a wireless terminal in a local network (single wireless network) (location area) connected to a packet data network (fig. 3a number 390) (page 2, paragraph 0021), sending a service feature (call forwarding) request across said network to a server adapted to administer service features for said wireless terminal (page 2, paragraph 0021 lines 7-17); and

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returning a service feature response to said local network (page 2, paragraph 0021 lines 7-17 and pages 2-3, paragraph 0022). Sallberg differs from claims 1,12,23,26,29,32,34,36 and 39 of the present invention in that it do not disclose comprising a switch for accessing a packet data network for administering service features for a wireless call to or from a wireless terminal in a home network; Sending and receiving a service feature across said packet data network from a packet server located in a home network. Emery et al. teaches a switch (central office) for accessing a packet data network for administering service features (IP address, URL Address or electronic mail) for a wireless call to or from a wireless terminal in a home network (col. 1 line 39 through col. 2 line 21; col. 3 lines 15-29 and col. 4 lines 1-9); sending and receiving a service feature (IP address, URL Address or electronic mail) across said packet data network from a packet server (home location register) located in a home network (col. 1 line 39 through col. 2 line 21 and col. 3 lines 15-29). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Sallberg with a switch for accessing a packet data network for administering service features for a wireless call to or from a wireless terminal in a home network; Sending and receiving a service feature across said packet data network from a packet server located in a home network in order for a wireless telephone to excess and receive information from the internet network within its home network which supports internet service protocols, as taught by Emery et al.

Regarding claims 2 and 13, Sallberg discloses said home network is a home network associated with said wireless terminal (page 2, paragraph 0022, lines 7-8).

Regarding claim 3, Sallberg discloses accessing a packet data feature server in said home network (page 2, paragraph 0021).

Regarding claims 4 and 15, Sallberg discloses said feature server consulting a home location register database in said home network (page 2, paragraph 0022, lines 7-8).

Regarding claims 5 and 16, Sallberg discloses said feature server passing service feature control to a packet data feature

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server that is local to said wireless terminal (page 2, paragraph 0021, lines 7-18).

Regarding claims 6, 11 and 22, Sallberg discloses accessing said data network from a local network (wireless network) (fig. 3a number 305) to which said mobile terminal is connected (fig. 3a).

Regarding claims 7 and 18, Sallberg discloses said data network accessing step, said home network accessing step, and switch are performed on a call-by-call basis (i.e. when a call is made or call connection) (page 2, paragraphs 0021 and 0022).

Regarding claims 8 and 19, Sallberg discloses said wireless call is a voice call (page 1, paragraph 0002).

Regarding claims 9 and 20, Sallberg discloses said wireless call is a data call (data communication) (page 2, paragraph 0015).

Regarding claims 14, 21 and 25, Sallberg discloses said home network is a home network associated with wireless terminals of plural wireless networks (fig. 3a number 390 and 350).

Regarding claim 17, Sallberg discloses said switch is adapted to access said data network from a local network to which said mobile terminal is connected (fig. 3a numbers 320, 390 and 305).

Regarding claims 26 and 29, Sallberg discloses in a data network feature server (internet/voice gateway server) (fig. 3a numbers 330 and 440) (page 2, paragraph 0021), a method for providing service features for wireless calls) (page 2 and 3, paragraphs 0021 and 0025), comprising the steps of storing service feature logic for a plurality of wireless terminals (HLR or VLR) (inherent, taught on page 2, paragraph 0022 lines 4-7 and page 3 paragraph 0025); communicating service feature messages via a data network (internet) with a switch (MSC/VLR) located in a wireless network (page 3, paragraph 0025), said switch being in communication with a wireless terminal whose service feature logic is maintained by said feature server (page 2 and 3, paragraph 0022 and 0025); and communicating, as necessary, service feature messages via a data network with said wireless terminal (page 2 and 3, paragraph 0022 and 0025).

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Regarding claims 27 and 30, Sallberg discloses determining whether additional service feature information (ms has purchase call forwarding) (control programming) is required for said wireless terminal (page 3, paragraph 0022 lines 1-6), and obtaining such information from a service feature information resource (voice gateway) that is in communication with said feature server (page 2 lines 7-26 and page 3, paragraph 0022 lines 1-6).

Regarding claims 28 and 31, Sallberg discloses determining whether local feature service is required for said wireless terminal (page 2 and 3 paragraph 0022), and if so, passing service feature control to a local feature server (MSC/VLR) associated with said wireless network (page 3 paragraph 0022, lines 1-6 and paragraph 0025).

3. Claims 38 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sallberg in view Emery et al. as address in claims 36,37,39 and 40 above and in further view of Hartmaier.

Regarding claims 38 and 41, The combination of Sallberg and Emery et al. differs from claims 38 and 41 of the claimed invention in that they do not disclose means for performing a look-up of a data network address. Hartmaier teaches means (network node) for performing a look-up of a data network address (abstract and col. 2 lines 20-32). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made To provide the combination of Sallberg and Emery et al. means for performing a look-up of a data network address in order to rout a call forward feature through a data network by checking an internet address to the mobile station, as taught by Hartmaier.

Response to Arguments

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4. Applicant's arguments filed August 25, 2003 have been fully considered but they are not deemed to be persuasive. The following are explanations to the applicant arguments:

5. Argument: Applicant alleges that Emery is not directed to wireless communications.

Explanation: Examiner respectfully disagrees because Emery teaches a wireless communications (col. 1 lines 8-11) and a subscriber registering when roaming (col. 6 lines 15-17).

6. Argument: Applicant alleges that Emery IP addresses, URL Address, and email addresses is not administered from a data network, but is stored in the HLR and VLRs.

Explanation: Examiner respectfully disagrees because Emery (figs. 1-3) are packet data networks (see, col. 3 lines 15-20) and the HLR and VLRs are apart of the packet network (see, fig. 1-3 numbers 40 and 120). The central office queries the HLR and retrieves directory number of the subscriber and its IP address (service feature), the central office routes the call to the central office gateway by supplying the subscriber IP telephone address (col. 3 line 66 through col. 4 line 7). The IP address is a service feature which lets the central office know how to rout the call (col. 3 line 66 through col. 4 line 7). IP service features are known in wireless networks when accessing an internet network. Sallberg teaches an internet network (fig. 3a number 390).

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO

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MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (703) 305-4888. The examiner can normally be reached on 6:30am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703) 308-5318. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Keith Ferguson *KF*


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October 24, 2003



WILLIAM TROST
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600